In the Claims:

1. – 7. (Canceled).

8. (Currently Amended) An apparatus for determining a characteristic of blood, compromising:

an imaging detector positioned to receive a first type of reflected radiation from an eye;

a radiation directing device capable of directing a second type of radiation onto a blood vessel of the eye;

a radiation detection assembly positioned to receive reflected radiation of the second type from the blood vessel; and

electronics, coupled to the imaging detector, radiation directing device and radiation detection assembly, capable of

identifying the blood vessel of the eye using reflected radiation data from the imaging detector,

adjusting the radiation directing device to direct the second type of radiation onto the identified blood vessel, and

determining a characteristic of the blood using reflected radiation data from the radiation detection assembly;

wherein the characteristic includes blood glucose levels.

9. (Canceled).

10. (Canceled).

11. (Canceled).

12. (Previously Presented) The apparatus of claim 8, wherein the electronics identifies the blood vessel by processing the image based on color.

13. (Original) The apparatus of claim 8, wherein the radiation directing device includes a digital micro-mirror.

14. (Original) The apparatus of claim 8, wherein the second type of radiation includes near infrared radiation.

15. (Original) The apparatus of claim 8, wherein the first type of radiation includes blue or green light.

16. (Previously Presented) The apparatus of claim 8, wherein the electronics is further capable of tracking the identified blood vessel if the blood vessel is moving.

17. (Original) The apparatus of claim 8, wherein the radiation detection assembly includes a pixilated detector.

18. (Currently Amended) A system for determining a characteristic of blood, comprising:

a radiation directing engine capable of adjusting a radiation direction device such that emitted radiation is directed onto a blood vessel of an eye;

a feedback engine, communicatively coupled to the radiation directing engine, capable of determining the position of the blood vessel; and

an analysis engine, capable of determining a characteristic of the blood using radiation reflected from the blood vessel;

wherein the characteristic includes blood glucose levels.

19. (Canceled).

20. (Canceled).

21. (Canceled).

22. (Previously Presented) The system of claim 18, further comprising a pattern selection engine, communicatively coupled to the feedback engine, capable of identifying the blood vessel of the eye.

23. (Previously Presented) The system of claim 18, wherein the feedback engine is further capable tracking the blood vessel if the blood vessel is moving.

24. – 46. (Canceled).